



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : C12N 15/82, 15/62, C07K 17/02, A01H 5/00</p>	<p>A1</p>	<p>(11) International Publication Number: WO 99/49063 (43) International Publication Date: 30 September 1999 (30.09.99)</p>
<p>(21) International Application Number: PCT/CA99/00237 (22) International Filing Date: 19 March 1999 (19.03.99) (30) Priority Data: 60/078,728 20 March 1998 (20.03.98) US (71) Applicant: HER MAJESTY IN RIGHT OF CANADA as represented by THE MINISTER OF AGRICULTURE AND AGRI-FOOD CANADA [CA/CA]; Eastern Cereal & Oilseed Research Centre, K.W. Neatby Building, Ottawa, Ontario K1A 0C6 (CA). (72) Inventors: ROBERT, Laurian, S.; 12 De Maison, Gatineau, Quebec J8V 1Y4 (CA). GLEDDIE, Stephen; 33 Leonard Avenue, Ottawa, Ontario K1S 4T8 (CA). (74) Agents: SECHLEY, Konrad, A. et al.; Gowling, Strathy & Henderson, Suite 2600, 160 Elgin Street, Ottawa, Ontario K1P 1C3 (CA).</p>		<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>
<p>(54) Title: PROTEIN EXPRESSION IN FLORAL CELLS</p> <p>(57) Abstract</p> <p>This invention is directed to a method for the expression of a gene of interest, or a chimeric or modified gene allowing the localization of a protein, protein fusion, peptide or fragment of interest within the extracellular domain of a floral cell. This method comprises preparing a construct comprising a promoter sequence capable of expressing a gene encoding the protein, protein fusion, peptide, or fragment of interest, within the floral cell; a translated sequence of the protein, protein fusion, peptide, or fragment of interest, which is localized within the extracellular domain of a floral cell; a gene that encodes the protein, protein fusion, peptide, or fragment of interest; and a terminator sequence, and transforming a plant. Plants transformed with such a construct are characterized as having a protein, fragment thereof, or peptide of interest on the surface of a floral cell. Such localized proteins or peptides may be used for the purposes of peptide display, mediating plant sterility, modifying pollen-pistil interactions, altering pollen for insect consumption etc.</p> <div data-bbox="781 1542 1852 2470"> <p style="text-align: center;"><u>ANTHER</u></p> </div>		